

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (*Currently Amended*) A multichannel recording device ~~for recording digital data constituting a program on a disc-shaped recording medium using a specified minimum data length unit that must be contiguous, comprising~~ configured to record data on a disk-shaped recording medium that includes an object area in which object data constituting programs are recorded and a management area in which management data is recorded, said multichannel recording device comprising:

recording means for alternately recording object data on a first program and object data on a second program in the object area of the disk-shaped recording medium such that the object data are recorded based on a data length that enables continuous data reproduction;

reproduction means for reproducing the object data which the recording means records in the object area; and

control means for recording the management data in the management area of the disk-shaped recording medium, wherein the management data controls the reproduction means to reproduce the first and second programs in an order determined by channel numbers or recording start times.

~~control means alternately recording digital data constituting first and second programs that are mutually different, on said disc-shaped recording medium using said specified data length unit; and~~

~~reproducing means reproducing said disc-shaped recording medium;~~

~~wherein said control means records, on said disc-shaped recording medium, information for commanding said reproducing means to automatically sequentially reproduce said first and second programs recorded on said disc-shaped recording medium in the order of at least one of a channel number or a recording start time.~~

2. (*Currently Amended*) A multichannel recording device ~~for recording digital data constituting a program on a disc-shaped recording medium using a specified minimum data length unit that must be contiguous, comprising:~~ configured to record data on a disk-shaped recording medium including an object area in which object data constituting programs are recorded and a management area in which management data is recorded, said multichannel recording device comprising:

recording means for alternately recording object data on a first program and object data on a second program in the object area of the disk-shaped recording medium such that the object data are recorded based on a data length that enables continuous data reproduction;

reproduction means for reproducing the object data which the recording means records in the object area; and

control means for recording the management data in the management area of the disk-shaped recording medium, wherein the management data controls the reproduction means to reproduce a requested program, the requested program being one of the first or second programs.

~~control means alternately recording digital data constituting first and second programs that are mutually different, on said disc-shaped recording medium using said specified data length unit; and~~

~~reproducing means reproducing said disc-shaped recording medium;~~

~~wherein said control means records, on said disc-shaped recording medium, information for commanding said reproducing means to reproduce at least one of said first and second programs which has been requested for reproduction.~~

3. (*Currently Amended*) A multichannel recording method for recording digital data ~~constituting a program on a disc-shaped recording medium using a specified minimum data length unit that must be contiguous;~~ data on a disk-shaped recording medium that includes an object area in which object data constituting programs are recorded and a management area in which management data is recorded, said method comprising:

alternately recording object data on a first program and object data on a second program in the object area of the disk-shaped recording medium such that the object data are recorded based on a data length that enables continuous data reproduction;

reproducing the object data recorded in the object area; and

controlling the recording of the management data in the management area of the disk-shaped recording medium in which the management data controls the reproduction of the first and second programs in an order determined by channel numbers or recording start times.

~~alternately recording digital data constituting first and second programs that are mutually different on said disc shaped recording medium using said specified data length unit;~~

~~reproducing said disc shaped recording medium; and~~

~~recording, on said disc shaped recording medium, by a reproducing means, information for commanding said reproducing means to automatically sequentially reproduce said first and second programs recorded on said disc shaped recording medium in the order of at least one of a channel number or a recording start time.~~

4. *(Currently Amended)* A multichannel recording method for recording digital data ~~constituting a program on a disc shaped recording medium using a specified minimum data length unit that must be contiguous,~~ data on a disk-shaped recording medium that includes an object area in which object data constituting programs are recorded and a management area in which management data is recorded, said method comprising:

alternately recording object data on a first program and object data on a second program in the object area of the disk-shaped recording medium such that the object data are recorded based on a data length that enables continuous data reproduction;

reproducing the object data recorded in the object area; and

controlling the recording of the management data in the management area of the disk-shaped recording medium in which the management data controls the reproduction of a requested program, the requested program being one of the first or second programs.

~~alternately recording digital data constituting first and second programs that are mutually different on said disc-shaped recording medium using said specified data length unit;~~

~~reproducing said disc-shaped recording medium; and~~

~~recording, on said disc-shaped recording medium, by a reproducing means, information for commanding said reproducing means to reproduce at least one of said first and second programs which has been requested for reproduction.~~

5. – 10. *(Previously Cancelled)*.

11. *(Previously Presented)* A multichannel recording device according to claim 1, wherein while the digital data constituting said first and second programs are being alternately recorded on said disc-shaped recording medium using said specified data length unit, if there is an area in the recording direction where other data are recorded, said control means skips the area during the recording.

12. *(Previously Presented)* A multichannel recording device according to claim 2,

wherein while the digital data constituting said first and second programs are being alternately recorded on said disc-shaped recording medium using said specified data length unit, if there is an area in the recording direction where other data are recorded, said control means skips the area during the recording.

13. *(Previously Presented)* A multichannel recording method according to claim 3, wherein while the digital data constituting said first and second programs are being alternately recorded on said disc-shaped recording medium using said specified data length unit, if there is an area in the recording direction where other data are recorded, the area is skipped during said recording.

14. *(Previously Presented)* A multichannel recording method according to claim 4, wherein while the digital data constituting said first and second programs are

being alternately recorded on said disc-shaped recording medium using said specified data length unit, if there is an area in the recording direction where other data are recorded, the area is skipped during said recording.

15. *(Previously Presented)* A multichannel recording device according to claim 1, wherein said specified data length unit is a CDA unit.

16. *(Previously Presented)* A multichannel recording device according to claim 2, wherein said specified data length unit is a CDA unit.

17. *(Previously Presented)* A multichannel recording method according to claim 3, wherein said specified data length unit is a CDA unit.

18. *(Previously Presented)* A multichannel recording method according to claim 4, wherein said specified data length unit is a CDA unit.